## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

1.      (Currently Amended)  A method for controlling a policy-based network, comprising the steps of:

establishing a first policy within a policy server of the network, wherein the first policy includes at least a first function and a second function;

converting the first policy into at least a second policy and a third policy, <u>wherein the second policy defines a virtual flow label and the third policy is associated with the virtual flow label, and</u> wherein the second policy is associated with the first function and the third policy is associated with the second function;

distributing the second policy and the third policy within the network to at least one node; and

controlling the at least one node using the second policy and the third policy.


2.      (Currently Amended)  The method of claim 1, wherein the first policy includes at least a first policy rule having the first function in the first policy rule and a second policy rule having the second function in the second policy rule, and

wherein the second policy includes at least a third policy rule having the first function <u>and defines the virtual flow label</u> in the third policy rule, and

wherein the third policy includes at least a fourth policy rule having the second

function in the fourth policy rule, the fourth policy rule being associated with the

virtual flow label.


3.      (Canceled)


4.      (Currently Amended) A method for controlling a policy-based network,

comprising the steps of:

establishing a first policy within a policy server of the network, wherein the first

policy includes at least a first function and a second function;

converting the first policy into at least a second policy and a third policy,

wherein the second policy is associated with the first function and the third policy is

associated with the second function;

distributing the second policy and the third policy within the network to at least

one node; and

controlling the at least one node using the second policy and the third policy,

The method of claim 1, wherein the first policy includes at least a first policy rule

having the first function in an action part of the first policy rule and a second policy

rule having a first reference and having the second function in an action part of the

second policy rule,

wherein the first function modifies the contents of a field in each of a plurality

of data packets,

wherein the first reference refers to a value of the field modified by the first

function,

wherein the second policy includes at least a third policy rule having the first function and a virtual flow label value in an action part of the third policy rule and a fourth policy rule having the first reference in a condition part of the fourth policy rule, and

wherein the third policy includes at least a fifth policy rule having a reference to the virtual flow label value in a condition part of the fifth policy rule and having the second function.

5.      (Currently Amended) <u>A method for controlling a policy-based network, comprising the steps of:</u>

<u>establishing a first policy within a policy server of the network, wherein the first policy includes at least a first function and a second function;</u>

<u>converting the first policy into at least a second policy and a third policy, wherein the second policy is associated with the first function and the third policy is associated with the second function;</u>

<u>distributing the second policy and the third policy within the network to at least one node; and</u>

<u>controlling the at least one node using the second policy and the third policy,</u> ~~The method of claim 1,~~ wherein the first policy includes at least a first policy rule having a first reference in a condition part of the first policy rule and a second policy rule having a second reference and having a second function in an action part of the second policy rule,

wherein the first reference refers to the contents of a field in each of a plurality of data packets,

wherein the second reference refers to a value of the field modified by the first function,

wherein the second policy includes at least a third policy rule having the first reference in a condition part of the third policy rule and a fourth policy rule having the second reference and a virtual flow label in a condition part of the fourth policy rule, and

wherein the third policy includes at least a fifth policy rule having a reference to the virtual flow label in a condition part of the fifth policy rule and having the second function.

6.    (Original) The method of claim 1, wherein the first policy includes a list of condition parts of policy rules included in the first policy,

wherein the second policy includes a list of condition parts of policy rules included in the second policy,

wherein the third policy includes a list of condition parts of policy rules included in the third policy, and

wherein the list of condition parts included in the first policy is equal to the list of condition parts included in the second policy and the list of condition parts included in the third policy.

7.    (Original) The method of claim 1, wherein the first policy includes at least a first policy rule having at least a first condition and a second condition in a condition part of the first policy rule, wherein the first condition and the second condition are coupled with a logical "OR" operator,

wherein the second policy includes at least a second policy rule having the first condition in a condition part of the second policy rule and a third policy rule having the second condition in a condition part of the third policy rule, and

wherein the third policy includes at least a fourth policy rule having the first condition in a condition part of the fourth policy rule and a fifth policy rule having the second condition in a condition part of the fifth policy rule.

8.      (Original)  The method of claim 1, wherein the first policy includes at least a first policy rule having at least a first condition and a second condition in a condition part of the first policy rule, wherein the first condition and the second condition are coupled with a logical "OR" operator,

wherein the second policy includes at least a second policy rule having the first condition in a condition part of the second policy rule and a third policy rule having the second condition in a condition part of the third policy rule, wherein the second policy rule includes, in an action part of the second policy rule, a marking action of a first value in a field in each of a plurality of data packets, wherein the third policy rule includes, in an action part of the third policy rule, a marking action of the first value in the field in each of the plurality of data packets, and

wherein the third policy includes at least a fourth policy rule, and a condition part of the fourth policy rule determines whether the field in each of the plurality of data packets includes the first value.

9.      (Currently Amended)  <u>A method for controlling a policy-based network, comprising the steps of:</u>

establishing a first policy within a policy server of the network, wherein the first

policy includes at least a first function and a second function;

converting the first policy into at least a second policy and a third policy,

wherein the second policy is associated with the first function and the third policy is

associated with the second function;

distributing the second policy and the third policy within the network to at least

one node; and

controlling the at least one node using the second policy and the third policy,

~~The method of claim 1,~~ wherein the first policy includes at least a first policy rule

having at least a first condition and a second condition in a condition part of the first

policy rule, wherein the first condition and the second condition are coupled with a

logical "OR" operator,

wherein the second policy includes at least a second policy rule having the

first condition in a condition part of the second policy rule and a third policy rule

having the second condition in a condition part of the third policy rule, wherein the

second policy rule and the third policy rule each define a first virtual flow label value,

and

wherein the third policy includes at least a fourth policy rule, and a condition

part of the fourth policy rule determines the first virtual flow label value.


10.     (Currently Amended)  A method for controlling a policy-based network,

comprising the steps of:

establishing at least a first policy and a second policy within a policy server of

the network, wherein the first policy includes at least a first function and the second

policy includes at least a second function, <u>wherein the first policy defines a virtual flow label and the second policy is associated with the virtual flow label</u>;

converting the first policy and the second policy into a third policy, wherein the third policy is associated with the first function and the second function;

distributing the third policy within the network to at least one node; and

controlling the at least one node using the third policy.

11. (Original) The method of claim 10, wherein the first policy includes at least a first policy rule having the first function in an action part of the first policy rule, and

wherein the second policy includes at least a second policy rule having the second function in an action part of the second policy rule, and

wherein the third policy includes at least a third policy rule having the first function in an action part of the third policy rule and a fourth policy rule having the second function in an action part of the fourth policy rule.

12. (Original) The method of claim 10, wherein the first policy includes at least a first policy rule having a first condition in a condition part of the first policy rule and having in an action part of the first policy rule a marking action of a first value of a field in each of a plurality of data packets,

wherein the second policy includes at least a second policy rule, a condition part of the second policy rule determining whether the field in each of the plurality of data packets contains the first value, and having the first function in an action part of the second policy rule, and

wherein the third policy includes at least a third policy rule and a fourth policy rule,

wherein the third policy rule includes the first condition in a condition part of the third policy rule and the first function in an action part of the third policy rule, and

wherein the fourth policy rule includes a condition part for determining whether the field in each of the plurality of data packets contains the first value, and includes the first function in an action part of the fourth policy rule.

13.     (Original)  The method of claim 10, wherein the first policy includes at least a first policy rule and a second policy rule,

wherein the first policy rule includes a first condition in a condition part of the first policy rule and includes in an action part of the first policy rule a marking action of a first value of a field in each of a plurality of data packets,

wherein the second policy rule includes a second condition in a condition part of the second policy rule,

wherein the second policy includes at least a third policy rule having a condition part determining whether the field in each of the plurality of data packets includes the first value, and having in an action part of the third policy rule the first function, and

wherein the third policy includes at least a fourth policy rule and a fifth policy rule,

wherein the fourth policy rule includes the first condition in a condition part of the fourth policy rule and the first function in an action part of the fourth policy rule, and

wherein the fifth policy rule includes the second condition and a condition part

for determining whether the field in each of the plurality of data packets contains the

first value, and includes the first function in an action part of the fifth policy rule.


14.     (Currently Amended)  A system for controlling a policy-based network,

comprising:

a policy server for establishing policies;

conversion means for converting at least one of a high-level policy into a

plurality of low-level policies and a plurality of high-level policies into a low-level

policy, wherein the high-level policies are based on virtual flow labels;

distributing means for distributing within the network at least one of the low-

level policy and the plurality of low-level-policies;

a network node for receiving at least one of the low-level policy and the

plurality of low-level-policies.


15.     (Original)  The system of claim 14, wherein the conversion means

converts both the high-level policy into the plurality of low-level policies and the

plurality of high-level policies into the low-level policy.